CAPACITY DEVELOPMENT

Self-Assessment Form For Indiana's Public Water Systems Applying for State Revolving Fund (SRF) Loans



February 2001



Introduction

A water system should be "operated like a business." This is a frequently repeated phrase. But, what is meant by it? Here's one useful way to think about what it means to operate as a business:

For a successful business, a manager must be aware of changes taking place in the environment in which the business operates. It is necessary to constantly look to the future to:

- 1) Cope with any threats to the survival of the business; and
- 2) Take advantage of **opportunities** to improve the performance of the business.

In the same way, owners and managers of a water system must look to the future. Such things as the need for financing, the impact of new regulations, or the loss of key customers will present management demands that can only be met through sound business planning.

Many water systems were started at a time when the costs of providing water was low and regulatory demands were few. Without significant costs or other pressures, there was little incentive to focus on the business aspects of the operation. But times have changed! Little remains of the good old days when operating a water utility was a simple job. Today, customer expectations and new regulations have significantly increased the level of responsibility and preparedness required of public water systems. This form provides a process for water systems to assess their capacity to function in an effective, "business-like" manner.

Section 1420(c)(1)(C) of the Safe Drinking Water Act requires States to develop and implement a strategy to assist existing public water systems in acquiring and maintaining technical, managerial, and financial capacity. What exactly does technical, managerial, and financial capacity mean?

- **Technical capacity** the physical infrastructure of the water system, including but not limited to the source water adequacy, infrastructure adequacy, and technical knowledge. In other words, does your treatment system work the way it is supposed to? Are you providing the safest and cleanest water possible required by law to your customers right now? Will you be able to in the future?
- *Managerial capacity* the management structure of the water system, including but not limited to ownership accountability, staffing and organization, and effective linkages. In simpler terms, do you have capable and trained staff? Does your system have an effective management structure?
- *Financial capacity* the financial resources of the water system, including but not limited to the revenue sufficiency, credit worthiness, and fiscal controls. Basically, does your system have a budget and enough revenue to cover costs, repairs, and replacements?

This self-assessment form presents a structured series of yes/no questions which follow the three major elements of Capacity Development: Technical Capacity, Managerial Capacity, and Financial Capacity. The questions are intended to help you identify major capital and operating costs that could arise in the future operation of your system.

Within each section of the form, the questions are grouped according to overall topic areas. Each topic represents an important area where there may be hidden costs in your future. The individual yes/no questions under each topic are intended to stimulate your thinking about the topic in general. In going through them you should keep the general topic in mind and ask yourself: "Is there anything to worry about here?" "Is there anything that could surprise us and cost a lot of money?"

There are questions covering every major category of capital and operating costs. The questions are all structured such that a "yes" answer means that cost surprises are unlikely and a "no" answer means some potential for cost surprises exist.

When answering the questions, be honest with yourself. If you don't know the answer, take the time to do the research. In order to answer some of the questions, you may need to look at some records or find someone to help you understand the topic. When you come upon such questions, leave them blank and get what you need to complete them later.

Some questions may not apply to your system. For example, surface water questions do not apply to ground water systems. When you encounter such questions, simply cross them out and mark "NA" in the margin next to them, so you will remember to ignore those sections.

How do you use the results of this self-assessment to tell if your water system is going to be a successful business in the future?

There is no standard scoring system that can be used to interpret your answers to the yes/no questions. If you have relatively few "no" answers, the potential for cost surprises in your future is probably less than if you have several "no" answers. However, it is important for you to think carefully about each "no." Consider what can be done to reduce your liability in each instance and make an estimate about what each "no" might cost you. Ask yourself "What do all the "no" answers add up to?" "What must be done to change a "no" answer to a "yes?" "Can my system afford it?"

System Name:	
Public Water Supply ID #:	
Prepared By:	
Phone #:	
Date:	

Drinking Water Definitions

Community water system: A public water system which serves at least fifteen (15) service connections used by year-round residents or regularly serves at least twenty-five (25) year-round residents.

Contaminant: Any microorganisms, chemicals, waste, physical substance, radiological substance, or any wastewater introduced or found in the drinking water.

Disinfectant: Any oxidant, including but not limited to, chlorine, chlorine dioxide, chloramine, and ozone, that is added to water in any part of the treatment or distribution process and that is intended to kill or inactivate pathogenic microorganisms.

Disinfectant contact time: The time in minutes that it takes for water to move from the point of disinfectant application or the previous point of disinfectant residual measurement to a point before or at the point where residual disinfectant concentration is measured.

Filtration: A process for removing particulate matter from the water by passing the water through porous media.

Ground Water: The supply of fresh water found beneath the surface of the ground, usually in aquifers, which is often used for supplying wells and springs.

Ground Water Under the Direct Influence (GWUDI) of Surface Water: Any water beneath the surface of the ground with a significant occurrence of insects, macroorganisms, algae, or large-diameter pathogens such a Giardia lamblia; or any water with significant and relatively rapid shifts in water quality characteristics such as turbidity, temperature, conductivity, or pH which closely correlate to climatological or surface water conditions.

Maximum Contaminant Level (MCLs): The maximum permissible level of a contaminant in water delivered to any user of a public water system. MCLs are enforceable standards.

mg/L: Milligrams per liter - equivalent to parts per million.

 $\mu g/L$: Micrograms per liter - equivalent to parts per billion.

Nontransient Noncommunity water system: A public water system that is not a community system which regularly serves the same twenty-five (25) or more persons at least six (6) months per year

NTU: Nephelometric turbidity unit.

Operator: The person in direct or responsible charge and supervising the operation of a water treatment plant or a water distribution system.

pCi/L: picoCuries per liter – The quantity of radioactive material producing two and twenty-two hundredths (2.22) nuclear transformations per minute.

psi: Pounds per square inch.

Surface Water: All water occurring on the surface of the ground, including water in a stream, natural and artificial lakes, ponds, swales, marshes, and diffused surface water.

Turbidity: A cloudy condition in water due to suspended silt or organic matter.

Waiver: A process used by the Department of Environmental Management that allows a public water system to reduce or eliminate monitoring for a particular contaminant.

Technical Capacity

Please mark 🗷 the appropriate box: Yes, No, or Unknown for each section. Please try to determine the answer to every question. If a section or question does not apply to your system, please write NA for not applicable.

Your Water Supply

water Supply and Existing Demands	res	NO	Unknown
Do you know how much water you pump on an average day? Amount:			
Do you know how much water you pump on a peak day? Amount:			
Do you know the maximum amount of water you can pump from your source?			
Amount:			
Is your source capacity higher than your peak day demand?			
Percentage higher or lower:	Ш	Ц	Ц
Can you meet peak demand without pumping at peak capacity for extended			
periods? Longest time pumping at peak demand:			-
Have you been able to provide adequate volumes of water during drought conditions?			
Do you have an Emergency Response Plan that will allow your system to meet			П
system demand during a drought, shortage, or natural disaster?			
Water Demand	Yes	No	Unknown
Do you know whether your system demand will be growing, declining, or			
remain stable over the next ten years? Please circle one: growing declining stable	Ц	ш	Ц
If you have large commercial, industrial, or irrigation users, do you know their			
1 4 1 1 1 4 141 10			
long-term plans and understand their needs?			<u> </u>
Other Uses of Water	Yes	No	Unknown
Other Uses of Water Are you knowledgeable about other demands being placed on the same water	Yes	No	Unknown
Other Uses of Water			
Other Uses of Water Are you knowledgeable about other demands being placed on the same water	Yes	No	Unknown
Other Uses of Water Are you knowledgeable about other demands being placed on the same water source that you are using?	Yes	No	Unknown □
Other Uses of Water Are you knowledgeable about other demands being placed on the same water source that you are using? Do you know who the other users are and do you understand their future plans?	Yes	No	Unknown □
Other Uses of Water Are you knowledgeable about other demands being placed on the same water source that you are using? Do you know who the other users are and do you understand their future plans? Are you registered as a significant water withdraw facility with the Indiana	Yes	No	Unknown □
Other Uses of Water Are you knowledgeable about other demands being placed on the same water source that you are using? Do you know who the other users are and do you understand their future plans? Are you registered as a significant water withdraw facility with the Indiana Department of Natural Resources?	Yes	No D No No	Unknown Unknown
Other Uses of Water Are you knowledgeable about other demands being placed on the same water source that you are using? Do you know who the other users are and do you understand their future plans? Are you registered as a significant water withdraw facility with the Indiana Department of Natural Resources? Water Quality	Yes	No	Unknown □ □
Other Uses of Water Are you knowledgeable about other demands being placed on the same water source that you are using? Do you know who the other users are and do you understand their future plans? Are you registered as a significant water withdraw facility with the Indiana Department of Natural Resources? Water Quality In the past year, have you remained in compliance with the maximum	Yes Control Ves Control Ves	No D No No	Unknown Unknown Unknown
Other Uses of Water Are you knowledgeable about other demands being placed on the same water source that you are using? Do you know who the other users are and do you understand their future plans? Are you registered as a significant water withdraw facility with the Indiana Department of Natural Resources? Water Quality In the past year, have you remained in compliance with the maximum contaminant level for the bacteriological contaminants? In the past two years, have you remained in compliance with the Nitrate maximum contaminant level?	Yes	No D No No	Unknown Unknown
Other Uses of Water Are you knowledgeable about other demands being placed on the same water source that you are using? Do you know who the other users are and do you understand their future plans? Are you registered as a significant water withdraw facility with the Indiana Department of Natural Resources? Water Quality In the past year, have you remained in compliance with the maximum contaminant level for the bacteriological contaminants? In the past two years, have you remained in compliance with the Nitrate maximum contaminant level? In the past three years, have you remained in compliance with Inorganic	Yes C Yes C C C C C C C C C C C C C C C C C C	No No No O	Unknown Unknown Unknown
Other Uses of Water Are you knowledgeable about other demands being placed on the same water source that you are using? Do you know who the other users are and do you understand their future plans? Are you registered as a significant water withdraw facility with the Indiana Department of Natural Resources? Water Quality In the past year, have you remained in compliance with the maximum contaminant level for the bacteriological contaminants? In the past two years, have you remained in compliance with the Nitrate maximum contaminant level? In the past three years, have you remained in compliance with Inorganic Chemical (IOC) maximum contaminant levels?	Yes Control Ves Control Ves	No D No No	Unknown Unknown Unknown
Other Uses of Water Are you knowledgeable about other demands being placed on the same water source that you are using? Do you know who the other users are and do you understand their future plans? Are you registered as a significant water withdraw facility with the Indiana Department of Natural Resources? Water Quality In the past year, have you remained in compliance with the maximum contaminant level for the bacteriological contaminants? In the past two years, have you remained in compliance with the Nitrate maximum contaminant level? In the past three years, have you remained in compliance with Inorganic	Yes C Yes C C C C C C C C C C C C C C C C C C	No No No O	Unknown Unknown Unknown

Water Quality (continued)	Yes	No	Unknown
In the past three years, have you remained in compliance with Volatile Organic Compound (VOC) maximum contaminant levels?			
Are the levels of Arsenic in your finished water at or below 0.010 mg/L?			
Have you ever monitored for Radon in your wells?			
Is the level of Radon in your wells below 4,000 pCi/L?			
Is the level of Radon in your wells below 300 pCi/L?			
Is the level of Sulfate in your finished water below 250 mg/L?			
Have you monitored for Methyl Tertiary-Butyl Ether (MtBE)?			
Treatment – General	Yes	No	Unknown
Does your treatment system(s) adequately treat the water to comply with the applicable primary or secondary drinking water standards?			
Is your treatment system properly operated and maintained?			
Purchased Water	Yes	No	Unknown
If you purchase water from another system or a wholesaler, do you know their long-term plans?			
Do you have a contract to purchase water? If yes, with who?			
Are you currently complying with your contract?			
Do you know the terms affecting your supply during drought conditions?			
Alternative Sources	Yes	No	Unknown
Are alternative water sources possibly available to you?			
Are you knowledgeable of the characteristics and costs of using alternative water sources?			
Water Source	Yes	No	Unknown
Do you know the depth of your wells? <i>Depths</i> :			
Do you know the "type" of aquifer system from which your water is drawn? If yes please circle one: confined unconfined			
Source Water Protection	Yes	No	Unknown
Do you meter your water at each well?			
Do you know if you qualify for the fixed radius delineation method?			
Do you have an approved "phase I" Wellhead Protection Plan?			
Are you on track with your Wellhead Protection Plan implementation?			
Do you know all the types of land uses within your wellhead protection area or your source water area?			
Do you know the areas within your wellhead protection area or source water area that are served by septic systems, wastewater treatment facilities or have an agricultural feedlot waste treatment facility?			

Treatment - Microbiological Contamination

Is your system using surface water or		(if you checked "no", skip to the next section
ground water under the direct	□ yes □ no	- Ground Water Systems)
influence of surface water?		

Surface Water Systems

Filtration Plant Condition	Yes	No	Unknown
Is your filter plant in good physical condition (free from spalling concrete, peeling paint)?			
Are repair parts available?			
Do you have redundancy (back-ups/automatic switchovers) for all major mechanical units? <i>If no, list units you do NOT have redundancy for:</i>			
Can your plant achieve a filtered water turbidity of 0.3 NTU?			
Do you have on-line continuous turbidimeters on each filter?			
Have you adopted a turbidity goal lower than the standard?			
Do you have the capability to add coagulant before the filter?			
Do you have a procedure in place to determine your filter backwash frequency?			
If you recycle your filter backwash water, do you return the recycled water to a location at or before the point of coagulant addition?			
Has IDEM performed a "sanitary survey" of your system recently with satisfactory results? <i>Year of last sanitary survey:</i>			

Ground Water Systems

Ground Water Under the Direct Influence (GWUDI) of Surface Water	Yes	No	Unknown
Are your wells more than 50 feet deep?			
Is your water free from variations in turbidity and temperature after storm events?			
Has a determination been completed by the IDEM to evaluate whether your wells are classified as "ground water under the direct influence" (GWUDI) of surface water? <i>Please circle one: Wells GWUDI? yes no</i>			
Well Construction and Protection	Yes	No	Unknown
Do you know when your wells were constructed? List year(s):			
Did IDEM approve your well sites?			
Are your wells constructed according to current Indiana regulations?			
Are your wells protected from flooding?			
Has IDEM performed a "sanitary survey" of your system recently with satisfactory results? <i>Year of last sanitary survey:</i>			

Disinfection

Do you disinfect?	□ yes	□ no	(if you checked "no", skip to the Infrastructure - Pumping section)
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Disinfection	Yes	No	Unknown
Do you regularly inspect and maintain your disinfection/chlorination equipment? Type of equipment:			
Do you have back-up equipment? Type:			
Do you have adequate contact time following disinfection and before the first user in the distribution system? *Approximate Contact time:			
Do you test for chlorine (free and total) daily in the distribution system and at plant taps? <i>Average free chlorine residual in distribution system:</i>			

Disinfection By-Products

Treatment for the Control of Disinfection By-Products	Yes	No	Unknown
Is the level of total trihalomethanes (TTHMs) in your distribution system below $80 \mu\text{g/L}$.			
If you treat surface water, are you already practicing or could you adopt "enhanced coagulation" in your current plant?			
If you treat surface water, do you know how much disinfection contact time your plant is achieving?			

Infrastructure - Pumping

Condition of Pumping Equipment	Yes	No	Unknown
Do you routinely inspect for signs of pump or pump motor problems?			
How often? How are the pumps monitored?			
Once diagnosed, are problems corrected in a timely enough manner to avoid	П		П
crisis financing, costly repairs, and unscheduled downtime?			
Do you hire a qualified pump contractor to perform an inspection of all			
pumping equipment, identify potential problems, and perform maintenance, on			
an annual basis?			
Standby/Emergency Power Equipment	Yes	No	Unknown
Is there sufficient standby/emergency power capacity to supply 100% of the			П
average daily demand (excluding fire demand)? <i>How long?</i> ————	ш	ш	Ц
Are any existing standby/emergency power equipment, controls and switches			
tested or exercised routinely under load conditions, for at least 30 minutes at a			
time? How often?			
Has the local electric utility been made aware of the standby/emergency power			
provisions made by the water system, so that they can reinforce and safeguard			
the electrical facilities serving the water operations?			

Infrastructure - Storage

Storage Capacity	Yes	No	Unknown
Does the system have sufficient gravity-flow (non-pumped) or emergency generator-supported pumping capability to ensure adequate distribution storage to provide safe and adequate service for up to 24 hours without power? If no, how long?			
Is there reserve capacity in the tank for fire protection support? **Amount:			
Security Measures	Yes	No	Unknown
Are any openings such as vent pipes, screened to protect against the entrance of birds, small animals, mosquitoes, flies and other small insects?			
Is there an entry hatch to allow access for cleaning and painting of the interior of the tank?			
Is your storage tank covered?			
Are the tank and the immediate surrounding area fenced and secured?			
Control Systems	Yes	No	Unknown
Is there a high and low water level signal system to control the pumps?			
Is there an altitude valve, to preclude the tank from overflowing?			
Is there a drain valve or hydrant to allow for draining of the tank?			
Is there an alarm system to notify the operator of problems in the system?			
Tank Maintenance	Yes	No	Unknown
Is the tank inspected at least every three years by a qualified tank contractor for evidence of corrosion or pitting, leakage, structural weakness, integrity of safety devises, and accuracy of pressure gauges?			
Is the tank contractor capable of analyzing the coating of paint on the interior and exterior surfaces of the tank to determine if it contains lead or other hazardous materials?			

${\it Infrastructure - Distribution}$

System Maintenance	Yes	No	Unknown
Does the operator routinely flush, test, and maintain the hydrants in the system? **How often:			
Are the locations of valves in the mains and curb stops on the service lines precisely known?			
Does the system keep a log of distribution system breaks to identify weak areas in the system?			
Are histories, locations, size, and type of mains and service lines detailed on records in a secure area?			
Are all valves exercised and lubricated periodically? How often:			
Is the system free of severe "water hammer" problems?			

System Maintenance (continued)	Yes	No	Unknown
Are meter pits, pressure regulating valves, altitude valves, blow-offs, and other appurtenances maintained on a regular basis?			
Unaccounted-for Water	Yes	No	Unknown
Is unaccounted-for water in the water system monitored and analyzed each month?			
Is the unaccounted-for water less than 15 percent of the total water delivered to the mains? List percentage of unaccounted-for water:%			
Are the normal operating pressures in the distribution system between 35 psi and 80 psi? <i>Normal operating pressure:</i> psi			
Do you have a routine leak detection and repair program?			
Are all sources of supply and customers metered?			
Are the meters calibrated and tested routinely to ensure their accuracy and reliability? <i>How often:</i>			
Water Quality in Distribution System	Yes	No	Unknown
Is an annual inspection for cross-connections performed?			
Is there a program for installing and testing backflow prevention devices where potential contamination is present?			
Is there a program to eliminate "dead-ends" in the mains, where feasible?			
Construction Standards	Yes	No	Unknown
Are there a low percentage of mains less than 6 inches in diameter in the water system? <i>List percentage</i> :			
Is there a program to gradually replace sub-standard sized mains?			
Are their suitable rights-of-way and easements provided to the water system for expansion, maintenance, and replacement of mains and services?			
Is there sufficient earth cover to protect the mains from frost damage or heavy loads, if driven over? <i>Inches of cover:</i>			
Are materials of mains designed and selected to resist corrosion, electrolysis, and deterioration?			
Distribution System Problems	Yes	No	Unknown
Do you receive few complaints regarding taste, odor, or staining? List number of complaints in the past year:			
Can you maintain adequate pressure in the distribution system under all conditions of flow?			

Managerial Capacity

Please mark 🗷 the appropriate box: Yes, No, or Unknown for each section. Please try to determine the answer to every question. If a section or question does not apply to your system, please write NA for not applicable.

Operation & Maintenance

Operations Staff	Yes	No	Unknown
Does the person operating your system hold a current certified drinking water operator's license from IDEM? If yes, list classification(s):			
Does your operator receive additional training on an ongoing basis to keep current on new developments in the field?			
Future Operational Demands	Yes	No	Unknown
Does your water system obtain any regular or occasional technical assistance from outside sources such as IDEM, your engineer, other utilities, or organizations specifically dedicated to providing technical assistance? If yes, who:			

Management & Administration

Who's in Charge?	Yes	No	Unknown
Is there a clear plan of organization and control among the people responsible for management and operation of the system?			
Are the limits of the operator's authority clearly known?			
Are all the specific functional areas of operations and management assigned?			
Does everyone involved in operations know who is responsible for each area?			
Is someone responsible for scheduling work?			
Rules and Standards	Yes	No	Unknown
Do you have explicit rules and standards for system modifications?			
Do you have rules governing new hook-ups?			
Do you have a water main extension policy?			
Do you have standard construction specifications to be followed?			
Do you have measures to assure cross-connection control and backflow prevention?			
Do you have policies or rules describing customer rights and responsibilities?			
Regulatory Compliance Program	Yes	No	Unknown
Do you fully understand all of your monitoring requirements?			
Do you have a scheduling mechanism to assure compliance?			
Do you have a mechanism to obtain the most recent information on regulatory requirements?			
Do you know how to get clarifications or explanations of the requirements?			

Regulatory Compliance Program (continued)	Yes	No	Unknown
Do you maintain adequate records to document compliance?			
If yes, for how long?			
Do you fill out Monthly Reports of Operations (MROs) completely and			
submit them to IDEM?			
Is your track record free of repeated episodes of monitoring violations?			
Do you know what to do in the event of a failure to monitor violation?			
Do you know what to do in the event of an MCL violation?			
Are you currently in compliance with all drinking water regulations?			
Are you delivering adequate and timely annual consumer confidence reports			
(CCRs) to your consumers?			
Are you aware of and do you understand provisions for obtaining waivers			
from monitoring requirements or the role of vulnerability assessments?			-
Are you currently in compliance with all wastewater regulations?			
Emergencies	Yes	No	Unknown
Do you have an Emergency Response Plan?			
Is there a contingency for making emergency interconnections to neighboring			
systems, and do you know they will work if needed?			
Does everyone involved in operations know what they are to do in the event			
of contamination from a toxic hazardous waste spill in your source water or a			
main break or a tank failure?			
Do you have a clear chain-of-command protocol for emergency action?			
Is someone responsible for emergency operations, for communications with			
state regulators, for customer relations, for media relations?			
If yes, who (title):			
Safety	Yes	No	Unknown
Do you have a safety program defining measures to be taken if someone is			
injured?	<u>-</u>		<u>–</u>
Does everyone understand the risks and safety measures involved in handling			
water treatment chemicals?			
Do you have written operating procedures for both routine and emergency			
system operations?			
Are you fully aware of Occupational Safety and Health Administration			
(OSHA) confined space (such as trenches/manholes) regulations?			
Maintenance	Yes	No	Unknown
Do you have a planned maintenance management system a system for scheduling routine preventive maintenance?			
Do you have a system for assuring adequate inventory of essential spare parts			
and back-up equipment?			
Do you have relationships with contractors and equipment vendors to assure			
prompt priority service?			
Do you have records and data management systems for system operating and			
maintenance data, for regulatory compliance data, and for system			
management and administration?			
management and administration? Management Capability	□ Yes	□ No	□ Unknown
management and administration?			
management and administration? Management Capability	Yes	No	Unknown
management and administration? Management Capability Are you aware of upcoming regulations in the water industry?	Yes	No	Unknown

Financial Capacity

Please mark **E** the appropriate box: *Yes*, *No*, or *Unknown* for each section. Please try to determine the answer to every question. If a section or question does not apply to your system, please write NA for not applicable.

Financial Planning Mechanisms	Yes	No	Unknown
Do you know your actual cost of service?			
Do you have an annual budget?			
Do you have within the annual budget a separate reserve account for equipment			
replacement and/or capital improvement?	Ц	Ц	
Do you have a capital budget or capital improvement plan that projects future			
capital investment need some distance (at least five years) into the future?			
Do you have a process for scheduling and committing to capital projects?			
Do you have a capital improvement plan that covers at least the next ten years?			
Does your planning process take account of all the potential capital needs			
suggested by your answers to the technical questions in these worksheets?			
Does your long-term planning incorporate analysis of alternative strategies that			
might offer cost savings to customers, such as consolidation with other nearby			
systems or sharing of operations and management expenses with other nearby	_	_	_
systems?			
Rates/Billing - Are they Adequate?	Yes	No	Unknown
Do you regularly review your rates? <i>How often?</i>			
Do you have a plan in place for periodic increases in rates?			
Is the rate structure based on metered watered use?			
List water rates per 1000 gallons:			
Do users pay the same or higher rate per 1000 gallons as they use more water?			
Does the rate structure assure proportionality among users?			
Do you have procedures for billing and collection?			
Is your billing collection rate greater than 95%?			
Do you have collection procedures specifically for delinquent accounts?			
Financial Planning Mechanisms - Are they Adequate?	Yes	No	Unknown
Do you have audited financial statements?			
Does your water system presently operate on a break-even basis or better?			
Does the water system keep all the water revenues (i.e., water revenue does not			
support other municipal departments or unrelated activities)?			_
Do you employ standardized accounting and tracking systems?			
Do you track budget performance?			
Do you keep records to substantiate depreciation of fixed assets and accounting			
for reserve funds?			–
Are financial management recordkeeping systems organized?			
Are controls exercised over expenditures?			
Are controls exercised to keep from exceeding your budget?			
Are there purchasing procedures?			

Putting it all Together:

Do you have Technical, Managerial, and Financial Capacity?

After processing through all of the questions in this self-assessment form, you should be in a position to summarize what you have learned about your status.

- First, you should have accumulated a list of items on which you need to do some more research or investigation in order to fully answer the question, or in order to reverse your answer from "no" to "yes."
- Second, you should be able to make a qualitative summary of what you have learned by taking a clean sheet of paper and filling in the most important things that come to mind reflecting on the issues raised in this form under the following headings
 - Strengths
 - Weaknesses
 - Opportunities
 - Threats
- Third, perhaps with some additional research or with the right assistance you may be within range of being able to begin a more quantitative form of business planning utilizing budget and revenue planning.

Finally, customer awareness of the issues covered by the preceding questions in this form is the true foundation of viability. Getting customers to fully appreciate what it takes to operate and maintain a water system is important to assure support for new capital investment and higher water rates. The more customers know about the cost to run a proper water system in the future, the more open-minded they are likely to be in considering alternative strategies for providing water service, conceivably at lower cost. Nothing focuses the mind like cost estimates. Once you have performed an analysis of prospective future liabilities and costs following the questions in this form, you will have the information needed to get people to focus on the choices involved in determining your future.

The final question to ask yourself is: How much of all this is known and understood by the customers; and how would this change their attitudes about the future?

If you need more information or assistance in completing this form, please contact:

Indiana Department of Environmental Management
Drinking Water Branch
Attn: Larey Conquergood
Capacity Development Coordinator
(317) 308-3318